TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2019-03-28-101**	**Date: 11-03-19**
Customer	:	Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore.	
Address	:	T.Dasarahalli Sub Division, BBMP, Bangalore.	
Project Name	:	Filling Potholes Main and Cross Roads in Dasarahalli Ward No.15	
Agency	:	Sri.L.Raghunandan #13, 2nd Main Gandhigrama, Maruthi Extension Bangalore-21	
Customer Reference	:	EE/DD/WO/405/18-19	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	09-03-19	
Type of Mix	:	WMM (Wet Mix Macadam)	
Date of test	:	09-03-19	
Oven Dry Weight	:	11000	Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	2.9	97.1	95-100
22.4	2259	2574	23.4	76.6	60-80
11.2	2179	4753	43.2	56.8	40-60
4.75	2251	7004	63.7	36.3	25-40
2.36	1621	8625	78.4	21.6	15-30
0.6	623	9248	84.1	15.9	8-22
0.075	1338	10586	96.2	3.8	0-5

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Bagalagunte, BBMP
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Quality Manager

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2019-03-28-101**	**Date: 11-03-19**
Customer	:	Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore.	
Address	:	T.Dasarahalli Sub Division, BBMP, Bangalore.	
Project Name	:	Filling Potholes Main and Cross Roads in Dasarahalli Ward No.15	
Agency	:	Sri.L.Raghunandan #13, 2nd Main Gandhigrama, Maruthi Extension Bangalore-21	
Customer Reference	:	EE/DD/WO/405/18-19	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	09-03-19	
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)	
Date of test	:	09-03-19	

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.4
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Pecentage	24.6	

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2019-03-28-101** **Date: 21-03-19**
Customer	:	Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T.Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Filling Potholes Main and Cross Roads in Dasarahalli Ward No.15
Agency	:	Sri.L.Raghunandan #13, 2nd Main Gandhigrama, Maruthi Extension Bangalore-21
Customer Reference	:	EE/DD/WO/405/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-03-19
Type of Mix	:	BC(Bitumenous Concrete)
Date of test	:	18-03-19

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.5	1.5	98.3	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

Lab ID : **CP-RW-2019-03-28-101** **Date: 21-03-19**

Customer : Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore.

Address : T.Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Filling Potholes Main and Cross Roads in Dasarahalli Ward No.15

Agency : Sri.L.Raghunandan #13, 2nd Main Gandhigrama, Maruthi Extension Bangalore-21

Customer Reference : EE/DD/WO/405/18-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-03-19

Type of Mix : BC (Bituminous Concrete)

Date of test : 18-03-19

Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	12.4	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	11.8		
Strength	Aggregate Impact Value	22.1	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.68	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.21	Maximum 2%	IS:2386 Part III

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TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2019-03-28-101** **Date: 21-03-19**
Customer	:	Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T.Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Filling Potholes Main and Cross Roads in Dasarahalli Ward No.15
Agency	:	Sri.L.Raghunandan #13, 2nd Main Gandhigrama, Maruthi Extension Bangalore-21
Customer Reference	:	EE/DD/WO/405/18-19
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	18-03-19
Type of Mix	:	BC (Bituminous Concrete)
Date of test	:	18-03-19

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.14	11.13	10KN(min)
2	Marshal flow at 60°C, mm	3.52	3.51	2-4
3	Percent air Voids	4.82	4.83	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.28	14.26	13-15
5	Percent Voids filled with Bitumen(VFB %)	71.87	71.63	65-75
6	Density, g/cc	2.25	2.26	–

Note:-
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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID : **CP-RW-2019-03-28-101** **Date: 25-03-19**

Customer : Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore.

Address : T.Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Filling Potholes Main and Cross Roads in Dasarahalli Ward No.15

Agency : Sri.L.Raghunandan #13, 2nd Main Gandhigrama, Maruthi Extension Bangalore-21

Customer Reference : EE/DD/WO/405/18-19

Source of Sample : Sample supplied by Agency

Date of Receipt : 23-03-19

Type of Mix : BC (Bituminous Concrete)

Date of test : 23-03-19

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	473	474
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.40	5.20
4	Average percentage	%	5.3	

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Format No: CP/TF/01

TEST REPORT ON BITUMEN

Lab ID	:	**CP-RW-2019-03-28-101** **Date: 16-03-19**
Customer	:	Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T.Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Filling Potholes Main and Cross Roads in Dasarahalli Ward No.15
Agency	:	Sri.L.Raghunandan #13, 2nd Main Gandhigrama, Maruthi Extension Bangalore-21
Customer's Reference	:	EE/DD/WO/405/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-03-19
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-1220(1978) (Reaffirmed-2004)
Date of test	:	15-03-19

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	64	60 to 70
2	Softening Point, °C	51.4	Min. 40°C
3	Ductility, cm	98	Min. 75cm
4	Flash point, °C	245	Min. 220°C
	Fire point, °C	272	

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DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID : **CP-RW-2019-03-28-101** **Date: 25-03-19**

Customer : Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore.

Address : T.Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Filling Potholes Main and Cross Roads in Dasarahalli Ward No.15

Agency : Sri.L.Raghunandan #13, 2nd Main Gandhigrama, Maruthi Extension Bangalore-21

Work Order Ref : EE/DD/WO/405/18-19

Sample Condition : Satisfactory

Date of Receipt : 23-03-19

Type of Mix : Tack coat

Date of test : 23-03-19

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.76	0.76
4	Final weight of plate after application of tack Coat (c)	Kg	0.783	0.783
5	Weight of tack Coat (d=c-b)	Kg	0.023	0.023
6	Rate of spread of tack coat	Kg/sq.m	0.256	0.256
7	Average	Kg/sq.m	0.256	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

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